

COMMISSIONER OF PATENTS AND TRADEMARKS  
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 FORM PTO-1449 (Modified)  
 LIST OF PATENTS AND PUBLICATIONS  
 FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  
 Sheet 1 of 9

RECEIVED  
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 TC 3100 MAIL ROOM

In re the Application of:  
 Alexander et al.

Art Unit: 3737

Serial No.: 09/662,224

Confirmation No.: 3054

Filed: September 14, 2000

Title: ASSESSING THE CONDITION OF A JOINT AND DEVISING TREATMENT

Atty. Docket No.: 6750-0007.01

U.S. PATENT DOCUMENTS

Ex'r Initial	Ref. No.	Document No.	Date	Name	Class	SubClass	Filed
JYL	A1	4,655,227	April 7, 1987	Gracovetsky			
	A2	4,699,156	October 1987	Gracovetsky			
	A3	4,813,436	March 21, 1989	Au			
	A4	5,320,102	June 14, 1994	Paul et al.			
	A5	5,413,116	May 9, 1995	Radke et al.			
↓	A6	5,445,152	August 29, 1995	Bell et al.			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ex'r Initial	Ref. No.	Description
JYL	C1	Alexander E.J., "Estimating the motion of bones from markers on the skin (Doctoral Dissertation)," University of Illinois at Chicago (1998)
	C2	Alexander E.J. and Andriacchi, T.P., "Correcting for deformation in skin-based marker systems," Proceedings of the 3rd Annual Gait and Clinical Movement Analysis Meeting, San Diego, CA (1998)
	C3	Alexander E.J. and Andriacchi, T.P., "Internal to external correspondence in the analysis of lower limb bone motion," Proceedings of the 1999 ASME Summer Bioengineering Conference, Big Sky, Montana (1999)
	C4	Alexander E.J., and Andriacchi, T.P., "State estimation theory in human movement analysis," Proceedings of the 1998 ASME International Mechanical Engineering Congress (1998)
	C5	Alexander et al., "Dynamic functional imaging of the musculoskeletal system," ASME Winter International Congress and Exposition, Nashville, Tennessee (1999)
	C6	Alexander et al., "Optimization techniques for skin deformation," Correction. International Symposium on 3-D Human Movement Conference, Chattanooga, TN, (1998)
↓	C7	Allen et al., "Late degenerative changes after meniscectomy 5 factors affecting the knee after operations," <i>J Bone Joint Surg</i> 66B:666-671 (1984)

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✓	C8	Alley et al., "Ultrafast contrast-enhanced three dimensional MR Aangiography: State of the art," <i>Radiographics</i> <u>18</u> :273-285 (1998)
	C9	Andriacchi, T.P., "Dynamics of knee Malalignment," <i>Orthop Clin North Am</i> <u>25</u> :395-403 (1994)
	C10	Andriacchi et al., "A point cluster method for <i>in vivo</i> motion analysis: Applied to a study of knee kinematics," <i>J. Biomech Eng</i> <u>120</u> (12):743-749 (1998)
	C11	Andriacchi et al., "Methods for evaluating the progression of Osteoarthritis," <i>Journal of Rehabilitation Research and Development</i> <u>37</u> (2):163-170 (2000)
	C12	Andriacchi and Strickland, "Gait analysis as a tool to assess joint kinetics biomechanics of normal and pathological human articulating joints," <i>Nijhoff, Series E</i> <u>93</u> :83-102 (1985)
	C13	Andriacchi and Toney, " <i>In vivo</i> measurement of six-degrees-of-freedom knee movement during functional testing," <i>Transactions of the Orthopedic Research Society</i> pp 698 (1995)
	C14	Beaulieu et al., "Glenohumeral relationships during physiological shoulder motion and stress testing: Initial experience with open MRI and active Scan-25 plane registration," <i>Radiology</i> (accepted for publication) (1999)
	C15	Beaulieu et al., "Dynamic imaging of glenohumeral instability with open MRI," <i>Int. Society for Magnetic Resonance in Medicine</i> Sydney, Australia (1998)
	C16	Bobic, V., "Arthroscopic osteochondral autograft transplantation in anterior cruciate ligament reconstruction: a preliminary clinical study," <i>Knee Surg Sports Traumatol Arthrosc</i> <u>3</u> (4):262-264 (1996)
	C17	Boe S., and Hansen H., "Arthroscopic partial meniscectomy in patients aged over 50," <i>J. Bone Joint Surg</i> <u>68B</u> :707 (1986)
	C18	Bregler et al., "Recovering non-rigid 3D shape from image streams," <i>Proc.IEEE Conference on Computer Vision and Pattern Recognition</i> (2000) in press
	C19	Brittberg et al., "A critical analysis of cartilage repair," <i>Acta Orthop Scand</i> <u>68</u> (2):186-191 (1997)
✓	C20	Brittberg et al., "Treatment of deep cartilage defects in the knee with autologous chondrocyte transplantation," <i>N Engl J Med</i> <u>331</u> (14): 889-895 (1994)

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JVC	C21	Broderick et al., "Severity of articular cartilage abnormality in patients with osteoarthritis: evaluation with fast spin-echo MR vs arthroscopy," <i>AJR</i> <u>162</u> : 99-103 (1994)
	C22	Butts et al., "Real-Time MR imaging of joint motion on an open MR imaging scanner," <i>Radiological Society of North America</i> , 83rd Scientific Assembly and Annual Meeting, Chicago, IL, (1997)
	C23	Cohen et al., "Knee cartilage topography, thickness, and contact areas from MRI: in-vitro calibration and <i>in-vivo</i> measurements," <i>Osteoarthritis and Cartilage</i> <u>7</u> :95-109 (1999)
	C24	Daniel et al., "Breast cancer-gadolinium-enhanced MR imaging with a 0.5T open imager and three-point Dixon technique," <i>Radiology</i> <u>207</u> (1):183-190 (1998)
	C25	Disler, D.G., "Fat-suppressed three-dimensional spoiled gradient-recalled MR imaging: assessment of articular and phyeal hyaline cartilage," <i>AJR</i> <u>169</u> :1117-1123 (1997)
	C26	Disler et al., "Fat-suppressed three-dimensional spoiled gradient-echo MR imaging of hyaline cartilage defects in the knee: comparison with standard MR imaging and arthroscopy," <i>AJR</i> <u>167</u> :127-132 (1996)
	C27	Disler et al., "Detection of knee hyaline cartilage defects using fat-suppressed three-dimensional spoiled gradient-echo MR imaging: comparison with standard MR imaging and correlation with arthroscopy," <i>AJR</i> <u>165</u> :377-382 (1995)
	C28	Doherty M, Hutton C, Bayliss MT: Osteoarthritis. In: Maddison PJ, Isenberg DA, Woo P, et al., eds. <i>Oxford Textbook of Rheumatology</i> , vol 1. Oxford, New York, Tokyo: Oxford University Press, 959-983 (1993)
	C29	Dougados et al., "Longitudinal radiologic evaluation of osteoarthritis of the knee," <i>J Rheumatol</i> <u>19</u> :378-384 (1992)
	C30	Du et al., "Vessel enhancement filtering in three-dimensional MR angiography," <i>J. Magn Res Imaging</i> <u>5</u> :151-157 (1995)
	C31	Du et al., "Reduction of partial-volume artifacts with zero filled interpolation in three-dimensional MR Angiography," <i>J Magn Res Imaging</i> <u>4</u> :733-741 (1994)
	C32	Dumoulin et al., "Real-time position monitoring of invasive devices using magnetic resonance," <i>Magn Reson Med</i> <u>29</u> :411-5 (1993)
	C33	Eckstein et al., " <i>In vivo</i> reproducibility of three-dimensional cartilage volume and thickness measurements with MR imaging," <i>AJR</i> <u>170</u> (3): 593- 597 (1998)

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JYL	C34	Elting and Hubbell, "Unilateral frame distraction: proximal tibial valgus osteotomy for medial gonarthritis," <i>Contemp Orthop</i> <u>27</u> (6):522-524 (1993)
	C35	Falcão et al., "User-steered image segmentation paradigms: Live wire and live lane," <i>Graphical Models and Image Processing</i> <u>60</u> :233-260 (1998)
	C36	Felson et al., "Weight Loss Reduces the risk for symptomatic knee osteoarthritis in women: the Framingham study," <i>Ann Intern Med</i> <u>116</u> :535-539 (1992)
	C37	Garrett, J.C., "Osteochondral allografts for reconstruction of articular defects of the knee," <i>Instr Course Lect</i> <u>47</u> :517-522 (1998)
	C38	Ghosh et al., "Watershed segmentation of high resolution articular cartilage image," <i>International Society for Magnetic Resonance in Medicine, Philadelphia</i> , (1999)
	C39	Gouraud, H., "Continuous shading of curved surfaces," <i>IEEE Trans on Computers C-20</i> (6) (1971)
	C40	Hargreaves et al., "Technical considerations for DEFT imaging," <i>International Society for Magnetic Resonance in Medicine, Sydney, Australia</i> , April 17-24, (1998)
	C41	Hargreaves et al., "Imaging of articular cartilage using driven equilibrium," "International Society for Magnetic Resonance in Medicine, Sydney, Australia, April 17-24, (1998)
	C42	Hayes and Conway, "Evaluation of Articular Cartilage: Radiographic and Cross-Sectional Imaging Techniques," <i>Radiographics</i> <u>12</u> :409-428 (1992)
	C43	Henkelman et al., "Anisotropy of NMR properties of tissues," <i>Magn Res Med.</i> <u>32</u> :592-601 (1994)
	C44	Hyhlik-Durr et al., "Precision of Tibial Cartilage Morphometry with a coronal water-excitation MR sequence," <i>European Radiology</i> <u>10</u> (2):297-303 (2000)
	C45	Irarrazabal et al., "Fast three-dimensional magnetic resonance imaging," <i>Mag Res. Med.</i> <u>33</u> :656-662 (1995)
	C46	Johnson et al., "The distribution of load across the knee. A comparison of static and dynamic measurements," <i>J. Bone Joint Surg</i> <u>62B</u> :346-349 (1980)
V	C47	Johnson, T.S., "In vivo contact kinematics of the knee joint: Advancing the point cluster technique," Ph.D. Thesis, University of Minnesota (1999)

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JYL	C48	Johnson et al., "Development of a knee wear method based on prosthetic <i>in vivo</i> slip velocity," <i>Transactions of the Orthopedic Research Society</i> , 46 <sup>th</sup> Annual Meeting, March, 2000
	C49	Kass et al., "Snakes: Active contour models.,," <i>Int J Comput Vision</i> <u>1</u> :321-331 (1988)
	C50	LaFortune et al., "Three dimensional kinematics of the human knee during walking," <i>J. Biomechanics</i> <u>25</u> :347-357 (1992)
	C51	Lang et al., "Functional joint imaging: a new technique integrating MRI and biomotion studies," <i>International Society for Magnetic Resonance in Medicine</i> , Denver, 4/18/00-4/24/00 (2000)
	C52	Lang et al., "Risk factors for progression of cartilage loss: a longitudinal MRI study. European Society of Musculoskeletal Radiology, 6th Annual Meeting, Edinburgh, Scotland, (1999)
	C53	Lang et al., "Cartilage imaging: comparison of driven equilibrium with gradient-echo, SPAR, and fast spin-echo sequences. International Society for Magnetic Resonance in Medicine, Sydney, Australia, April 17-24, (1998)
	C54	Ledingham et al., "Factors affecting radiographic progression of knee osteoarthritis," <i>Ann Rheum Dis</i> <u>54</u> : 53-58 (1995)
	C55	Lorensen et al., "Marching cubes: a high resolution 3d surface construction algorithm," <i>Comput Graph</i> <u>21</u> :163-169 (1987)
	C56	Losch et al., "A non-invasive technique for 3-dimensional assessment of articular cartilage thickness based on MRI part 1:development of a computational method," <i>Magn Res Imaging</i> <u>15</u> (7):795-804 (1997)
	C57	Lu et al., "Bone position estimation from skin marker co-ordinates using globals optimization with joint constraints," <i>J Biomechanics</i> <u>32</u> :129 -134 (1999)
	C58	Lucchetti et al., "Skin movement artefact assessment and compensation in the estimation of knee-joint kinematics," <i>J Biomechanics</i> <u>31</u> :977-984 (1998)
	C59	Lynch et al., "Cartilage segmentation of 3D MRI scans of the osteoarthritic knee combining user knowledge and active contours," <i>Proc. SPIE 3979 Medical Imaging</i> , San Diego, February 2000
	C60	Maki et al., " SNR improvement in NMR microscopy using DEFT," <i>J Mag Res</i> (1988)
Y	C61	Meyer et al., "Simultaneous spatial and spectral selective excitation," <i>Magn Res Med</i> <u>15</u> :287-304 (1990)

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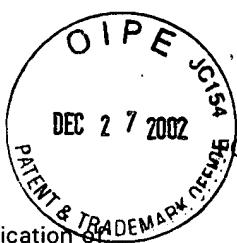
Ex'r Initial	Ref. No.	Description
TYL	C62	Mollica et al., "Surgical treatment of arthritic varus knee by tibial corticotomy and angular distraction with an external fixator," <i>Ital J Orthop Traumatol</i> 18 (1):17-23 (1992)
	C63	Nizard, R.S., "Role of tibial osteotomy in the treatment of medial femorotibial osteoarthritis," <i>Rev Rhum Engl Ed</i> 65 (7-9):443-446(1998)
	C64	Noll et al., "Homodyne detection in magnetic resonance imaging," <i>IEEE Trans Med Imag</i> 10(2):154-163 (1991)
	C65	Ogilvie-Harris et al., "Arthroscopic management of the degenerative knee," <i>Arthroscopy</i> 7:151-157 (1991)
	C66	Pearle et al., "Use of an external MR-tracking coil for active scan plane registration during dynamic Musculoskeletal MR imaging in a vertically open MR unit," <i>American Roentgen Ray Society</i> , San Francisco, CA, (1998)
	C67	Peterfy et al., "Quantification of the volume of articular cartilage in the carpophalangeal joints of the hand: accuracy and precision of three-dimensional MR imaging," <i>AJR</i> 165: 371-375 (1995)
	C68	Peterfy et al., "MR imaging of the arthritic knee: improved discrimination of cartilage, synovium, and effusion with pulsed saturation transfer and fat-suppressed TI-weighted sequences," <i>Radiology</i> 191(2):413-419 (1994)
	C69	Peterfy et al., "Quantification of articular cartilage in the knee with pulsed saturation transfer subtraction and fat-suppressed MR imaging: optimization and validation," <i>Radiology</i> 192(2): 485-491 (1994)
	C70	Piplani et al., "Articular cartilage volume in the knee: semiautomated determination from three-dimensional reformations of MR images," <i>Radiology</i> 198:855-859 (1996)
	C71	Potter et al., "Magnetic resonance imaging of articular cartilage in the knee: an evaluation with use of fast-spin-echo imaging," <i>J. Bone Joint Surg</i> 80-A(9):1276-1284 (1998)
	C72	Prodromos et al., "A relationship between gait and clinical changes following high tibial osteotomy," <i>J. Bone Joint Surg</i> 67A:1188-1194 (1985)
	C73	Radin et al., "Mechanical Determination of Osteoarthritis," <i>Sem Arthr Rheum</i> 21(3):12-21 (1991)
	C74	Radin et al., "Characteristics of Joint Loading as it Applies to Osteoarthritis in: Mow VC, Woo S.Y., Ratcliffe T., eds. <i>Symposium on Biomechanics of Diarthrodial Joints</i> , vol 2, New York, NY: Springer-Verlag 437-451 (1990)

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JYL	C75	Recht et al., "Accuracy of fat-suppressed three-dimensional spoiled gradient-echo FLASH MR imaging in the detection of patellofemoral articular cartilage abnormalities," <i>Radiology</i> <u>198</u> :209-212 (1996)
	C76	Recht et al., "MR imaging of articular cartilage: current status and future directions," <i>AJR</i> <u>163</u> :283-290 (1994)
	C77	Ritter et al., "Postoperative alignment of total knee replacement," <i>Clin Orthop</i> <u>299</u> : 153-156 (1994)
	C78	Saito et al., "New algorithms for Euclidean distance transformation of an -dimensional digitized picture with applications," <i>Pattern Recognition</i> <u>27</u> (11):1551-1565 (1994)
	C79	Schipplin and Andriacchi, "Interaction between active and passive knee stabilizers during level walking," <i>J. Orthop Res</i> <u>9</u> :113 -119. 1991
	C80	Schouten et al., "A 12 year follow up study in the general population on prognostic factors of cartilage loss in osteoarthritis of the knee," <i>Ann Rheum Dis</i> <u>51</u> :932-937 (1992)
	C81	Sharif et al., "Serum hyaluronic acid level as a predictor of disease progression in osteoarthritis of the knee," <i>Arthritis Rheum</i> <u>38</u> :760-767 (1995)
	C82	Sharma et al., "Knee adduction moment, serum hyaluronic acid level, and disease severity in medial tibiofemoral osteoarthritis," <i>Arthritis and Rheumatism</i> <u>41</u> (7):1233-40 (1998)
	C83	Shoup et al., "The driven equilibrium Fourier transform NMR technique: an experimental study," <i>J Mag Res</i> p.8 (1972)
	C84	Slemenda et al., "Lower extremity lean tissue mass and strength predict increases in pain and in functional impairment in knee osteoarthritis," <i>Arthritis Rheum</i> <u>39</u> (suppl): S212 (1996)
	C85	Slemenda et al., "Lower extremity strength, lean tissue mass and bone density in progression of knee osteoarthritis," <i>Arthritis Rheum</i> <u>39</u> (suppl):S169 (1996)
	C86	Solloway et al., "The use of active shape models for making thickness measurements of articular cartilage from MR images," <i>Mag Res Med</i> <u>37</u> :943-952 (1997)
	C87	Spoor and Veldpas, "Rigid body motion calculated from spatial coordinates of markers," <i>J. Biomechanics</i> <u>13</u> :391-393 (1980)

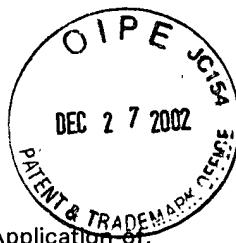
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Tyl	C88	Stammberger et al., "Determination of 3D cartilage thickness data from MR imaging: computational method and reproducibility in the living," <i>Mag Res Med</i> <u>41</u> :529-536 (1999)
	C89	Stammberger et al., "Interobserver to reproducibility of quantitative cartilage measurements: Comparison of B-spline snakes and manual segmentation," <i>Mag Res Imaging</i> <u>17</u> :1033-1042 (1999)
	C90	Steines, D., et al., Segmentation of osteoarthritic femoral cartilage using live wire, ISMRM Eight Scientific Meeting, Denver Colorado, 2000
	C91	Steines et al., "Segmentation of osteoarthritis femoral cartilage from MR images," CARS - Computer-Assisted Radiology and Surgery, pp 578-583, San Francisco, (2000)
	C92	Steines et al., "Measuring volume of articular cartilage defects in osteoarthritis using MRI. To be presented at ACR 64th Annual Scientific Meeting, Philadelphia, October (2000)
	C93	Stevenson et al., "The fate of articular cartilage after transplantation of fresh and cryopreserved tissue-antigen-matched and mismatched osteochondral allografts in dogs," <i>J. Bone Joint Surg</i> <u>71</u> (9):1297-1307 (1989)
	C94	Tieschky et al., "Repeatability of patellar cartilage thickness patterns in the living, using a fat-suppressed magnetic resonance imaging sequence with short acquisition time and three-dimensional data processing," <i>J. Orthop Res</i> <u>15</u> (6):808-813 (1997)
	C95	Tomasi and Kanade, "Shape and motion from image streams under orthography--a factorization method," <i>Proc. Nat. Acad. Sci.</i> <u>90</u> (21):9795-9802 (1993)
	C96	Tsai et al., "Application of a flexible loop-gap resonator for MR imaging of articular cartilage at 3.0T," International Society for Magnetic Resonance in Medicine, Denver, 4/18/00-4/24/00 (2000)
	C97	Wang et al., "The influence of walking mechanics and time on the results of proximal tibial osteotomy," <i>J. Bone Joint Surg</i> <u>72</u> A:905-909 (1990)
	C98	Waterton et al., "Diurnal variation in the femoral articular cartilage of the knee in young adult humans," <i>Mag Res Med</i> <u>43</u> :126-132 (2000)
✓	C99	Woolf et al., "Magnetization transfer contrast: MR imaging of the knee," <i>Radiology</i> <u>179</u> : 623-628 (1991)

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JV	C100	Worring et al., "Digital curvature estimation. CVGIP," <i>Image Understanding</i> 58(3): p. 366-382 (1993)
	C101	Yan, C.H., "Measuring changes in local volumetric bone density," new approaches to quantitative computed tomography, Ph.D. thesis, 1998, Dept. of Electrical Engineering, Stanford University
	C102	Yao et al., "Incidental magnetization transfer contrast in fast spin-echo imaging of cartilage," <i>J. Magn Reson Imaging</i> 6(1):180-184 (1996)
	C103	Yao et al., "MR imaging of joints: analytic optimization of GRE techniques at 1.5 T," <i>AJR</i> 158(2):339-345 (1992)
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